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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/876,992	06/11/2001	Terry P. Cleland	62.321	1827

20736 7590 08/09/2002
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EXAMINER

HSIEH, SHIH YUNG

ART UNIT	PAPER NUMBER
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2837

DATE MAILED: 08/09/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/876,992

Applicant(s)

CLELAND, TERRY P.

Examiner

Shih-yung Hsieh

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-33 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5.
- 4) ☒ Interview Summary (PTO-413) Paper No(s). 6.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: .

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1. Claims 1-33 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "an axis" in claims 1 and 11 is indefinite and vague because it can be interpreted in any direction.

In claim 8, the phrase "between an outer surface the inner sleeve and the inner surface of the body" does not make sense.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-6, and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Sapp (544,125).

Regarding claim 1, Sapp discloses a drum shell comprising a rigid, hollow body (Fig. 1) disposed about an axis (an axis can be interpreted perpendicular to the drum shell and in the direction of the channels 10) and having first and second opposing ends (Fig. 3), the body having an inner surface and an outer surface (Fig. 1), at least the outer surface being of convoluted form (10 in Fig. 1).

Regarding claim 2, Sapp discloses the channels extending in the direction of the axis.

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Regarding claim 3, Sapp discloses the channels extending radially to the outer surface (Figs. 1 and 2).

Regarding claim 4, Sapp discloses the channels being evenly spaced about a periphery of the body and being sized to receive drum tensioning members (16).

Regarding claim 5, Sapp discloses reinforcing structure (12) for each channel including a bore (13) therethrough associated with each channel for receiving a drum tensioning member (16).

Regarding claim 6, Sapp discloses the reinforcing structure being an annular member mounted to the body between the opposing ends and disposed about the axis (Figs. 1 and 2).

Regarding claim 10, Sapp discloses the outer surface being a substantially smooth surface (Figs. 1 and 2).

4. Claims 7-9 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

5. Claims 11-33 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

6. The claims are allowable over the prior art for at least the reason that the prior art

fails to reasonably teach or suggest in claim 7 that the reinforcing structure includes a separate plate member disposed in each of said channel, in claim 8 that a rigid sleeve disposed within the hollow body to define a cavity between an outer surface of the inner sleeve and the inner surface of the body, and in claim 11 that a tensioning member being received in an associated channel and a first end of each tensioning member being received by the tensioning member receiving structure of each ring as set forth in the claimed combination.

7. Any inquiry concerning this communication should be directed to (David) S.Y. Hsieh at telephone number (703) 308-1031.


SHIH-YUNG HSIEH
PRIMARY EXAMINER